

Exhibit E



ETSI Rules of Procedure, 3 April 2019

IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR HOLDER / ORGANISATION ("Declarant")

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IPR INFORMATION STATEMENT

In accordance with Clause 4.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby informs ETSI that it is the Declarant's and/or its AFFILIATES' present belief that the IPR(s) disclosed in the attached *IPR Information Statement Annex* may be or may become ESSENTIAL in relation to at least the ETSI Work Item(s), STANDARD(S) and/or TECHNICAL SPECIFICATION(S) identified in the attached *IPR Information Statement Annex*.

The Declarant and/or its AFFILIATES (*check one box only*):



are the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex*.



are not the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex*.

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SIGNATURE

By signing this IPR Information Statement and Licensing Declaration form, you represent that you have the authority to bind the Declarant and/or its AFFILIATES to the representations and commitments provided in this form.

Name of authorized person:

Dr. Chanho Min

Title of authorized person:

Senior Manager

Place, Date:

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Please return this form duly signed to: ETSI Director-General
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ETSI Rules of Procedure, 3 April 2019

IPR Information Statement Annex

STANDARD, TECHNICAL SPECIFICATION or ETSI Work Item					Proprietor	Application No.	Publication No.	Patent/Application Title	Country of registration	FURTHER INFORMATION		
Disclos ure Number	Project or Standard name	Work Item or Standard No.	Illustrative Specific part of the standard (e.g. Section)	Version (V.X.X.X)						Other members of this PATENT FAMILY, if any *		
										Application No.	Publication No.	Country of registration
1	3GPP-Release-13	TS 136 331 TS 136 300 TS 36.300 TS 36.331		14.2.0 14.2.0 14.2.0 14.2.0	???? ???	KR20150136064	KR101985991 B1	METHODS FOR TRANSMITTING AND RECEIVING A DATA AND APPARATUSES THEREOF	KOREA (REPUBLIC OF)	CN20158053056 US201515516065 WO2015KR10391	CN106717060 A US2017311362 A1 WO2016053027 A1	CHINA UNITED STATES Patent Cooperation Treaty
2	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.212 TS 38.213			KT CORP [KR]	KR20180050090	KR20180129634 A	Method for scheduling data channel in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	CN201810501797 US201815985883 US201916357686	CN108934075 A US10284404 B2 US20191215212 A1	CHINA UNITED STATES UNITED STATES
3	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.214 TS 38.331		15.0.0	KT CORP [KR]	KR20180054207	KR20190008077 A	CSI-RS Method for beam management by using CSI-RS in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	CN201810756991 US201816027937	CN109257821 A US2019020454 A1	CHINA UNITED STATES
4	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.213 TS 38.214			KT CORP [KR]	KR20180057278	KR20190013452 A	Method for frequency hopping to transmit and receive uplink channel and Apparatuses thereof	KOREA (REPUBLIC OF)	CN201810801096 US201816048210	CN109309558 A US2019036665 A1	CHINA UNITED STATES
5	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.212			KT CORP [KR]	KR20180068747	KR20190017640 A	DMRS Method for multiplexing DMRS and data in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	CN201810869752 US201816058140	CN109391458 A US10454643 B2	CHINA UNITED STATES
6	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.214			KT CORP [KR]	KR20180077435	KR20190031125 A	DMRS Method for controlling transmit power of DMRS in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	CN20181185562 US201816131686	CN109511162 A US2019090199 A1	CHINA UNITED STATES
7	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.213			KT CORP [KR]	KR20180056950	KR20190031119 A	Method for transmitting and receiving transport block based on code block group and Apparatuses thereof	KOREA (REPUBLIC OF)	CN20181118440 US201816128748	CN109510691 A US2019089494 A1	CHINA UNITED STATES
8	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.214			KT CORP [KR]	KR20180071730	KR20190038277 A	TRS Method for transmitting Tracking Reference Signal in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	CN201811138879 US201816146920	CN109586880 A US2019104005 A1	CHINA UNITED STATES
9	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.212 TS 38.213			KT CORP [KR]	KR20180077270	KR20190038279 A	Apparatus and method of PUCCH resource allocation for new radio	KOREA (REPUBLIC OF)	CN201811148762 US201816147530	CN109586883 A US2019104517 A1	CHINA UNITED STATES
10	3GPP NR Release 15, 3GPP Release-15 NR	TS 136 331 TS 38.212 TS 38.213 TS 38.331		15.2.0 15.2.0	KT CORP [KR]	KR20180092635	KR20190038300 A	Method for switching bandwidth part in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	CN201811147708 KR20180084727 US201816147638	CN109586881 A KR20190038291 A US2019104543 A1	CHINA KOREA (REPUBLIC OF) UNITED STATES
11	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.212 TS 38.213			KT CORP [KR]	KR20180096773	KR20190038991 A	HARQ ACK/NACK Apparatus and method of transmitting and receiving HARQ ACK/NACK feedback information for new radio	KOREA (REPUBLIC OF)	CN201811168010 KR20180022186 US201816149344	CN109600212 A KR20190038983 A US2019103947 A1	CHINA KOREA (REPUBLIC OF) UNITED STATES



12	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.214			KT CORP [KR]	KR20180132306	KR20190085838 A	Methods for data modulation and coding for new radio and Apparatus thereof	KOREA (REPUBLIC OF)	CN20191011509	CN110034906 A	CHINA
										EP20190150559	EP3512138 A1	European Patent Office
										KR20180058965	KR20190085820 A	KOREA (REPUBLIC OF)
13	3GPP-Release-15	TS 136 300 TS 136 212 TS 136 213 TS 38.213 TS 36.300 TS 36.212		15.2.0 15.2.1 15.2.0 15.2.0 15.2.0 15.2.1	KT CORP [KR]	KR20180107317	KR20190060657 A	LTE sTTI Method for multi sTTI based scheduling for transmitting and receiving data channel in LTE and Apparatus thereof	KOREA (REPUBLIC OF)	US201916241086	US2019215095 A1	UNITED STATES
										CN201811404747	CN109842952 A	CHINA
										US201816197487	US2019165895 A1	UNITED STATES
14	3GPP NR Release 15, 3GPP Release-15 NR	TS 124 501 TS 138 331 TS 24.501 TS 38.331		15.0.0 15.3.0 15.0.0 15.3.0	KT CORP [KR]	KR20180098477	KR20190028282 A	Methods for controlling access control in next generation wireless network AND Apparatus thereof	KOREA (REPUBLIC OF)	US201816125863	US2019082376 A1	UNITED STATES
15	3GPP-Release-15	TS 136 331 TS 36.331		15.3.0 15.3.0	KT CORP [KR]	KR20180056942	KR20190012096 A	RRC IDLE Methods for controlling measurement process in RRC IDLE mode and Apparatus thereof	KOREA (REPUBLIC OF)	CN201810789449	CN109309969 A	CHINA
										US201816040924	US2019037425 A1	UNITED STATES
16	3GPP-Release-15	TS 136 321 TS 136 331 TS 36.321 TS 36.331		15.2.0 15.3.0 15.2.0 15.3.0	KT CORP [KR]	KR20180124177	KR20190076834 A	Methods for controlling SCell state and Apparatus thereof	KOREA (REPUBLIC OF)	CN201811522932	CN109963296 A	CHINA
										US201816227392	US2019200413 A1	UNITED STATES
17	3GPP-Release-15	TS 136 321 TS 136 331 TS 136 213 TS 36.213 TS 36.321 TS 36.331		15.2.0 15.3.0 15.2.0 15.2.0 15.3.0	KT CORP [KR]	KR20180145158	KR20190083612 A	Methods for controlling SCell state and Apparatus thereof	KOREA (REPUBLIC OF)	CN201811632751	CN110012499 A	CHINA
										US201816236640	US2019208429 A1	UNITED STATES
18	3GPP NR Release 15, 3GPP Release-15 NR	TS 138 463 TS 38.401 TS 38.463		15.0.0 15.0.0	KT CORP [KR]	KR20180088414	KR20190022322 A	Methods for controlling mobility of UE and Apparatus thereof	KOREA (REPUBLIC OF)	US201816112619	US2019069333 A1	UNITED STATES
19	3GPP NR Release 15, 3GPP Release-15 NR	TS 138 425 TS 38.425		15.2.0 15.2.0	KT CORP [KR]	KR20180091232	KR20190088861 A	NR LTE Methods for controlling data transfer using interworking interface between NR and LTE RAN systems And Apparatus thereof	KOREA (REPUBLIC OF)	US201816190355	US2019229864 A1	UNITED STATES
20	3GPP NR Release 15, 3GPP Release-15 NR	TS 137 340 TS 37.340		15.3.0 15.3.0	???? ?	KR20190020835	KR20190116906 A	Methods for controlling data volume of secondary gNB and Apparatus thereof	KOREA (REPUBLIC OF)	US201916373808	US2019312980 A1	UNITED STATES
21	3GPP-Release-16	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20190015479	KR20190098708 A	Method for Transmitting Uplink data and Apparatus thereof	KOREA (REPUBLIC OF)	WO2019KR01770	WO2019160332 A1	Patent Cooperation Treaty
22	3GPP-Release-16	TS 38.211 TS 38.212 TS 38.213			???? ?	KR20190035586	KR20190114848 A	Method for Transmitting Uplink data channel and Apparatus thereof	KOREA (REPUBLIC OF)	WO2019KR03707	WO2019190264 A1	Patent Cooperation Treaty



23	3GPP-Release-16	TS 38.211 TS 38.212 TS 38.213			???? ???	KR20190036129	KR20190114871 A	Methods for controlling uplink data channel transmission power and Apparatus thereof	KOREA (REPUBLIC OF)	WO2019KR03709	WO2019190265 A1	Patent Cooperation Treaty
24	3GPP-Release-16	TS 38.331			KT CORP [KR]	KR20190009663	KR20190098692 A	RRC Method for processing a RRC message of relay node and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2019KR01614	WO2019160280 A1	Patent Cooperation Treaty
25	3GPP-Release-16	TS 38.331			KT CORP [KR]	KR20190009666	KR20190098693 A	Methods for processing Uplink user data of relay node and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2019KR01616	WO2019160282 A1	Patent Cooperation Treaty
26	3GPP-Release-16	TS 38.331			KT CORP [KR]	KR20180043161	KR20180118047 A	Methods for performing terminal-based handover and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2018KR04383	WO2018194326 A1	Patent Cooperation Treaty
27	3GPP-Release-11	TS 38.211 TS 36.212 TS 36.213			KT CORPORATION, ???? ???	KR20110071096	KR101680212 B1	CHANNEL STATUS INFORMATION TRANSMITTING METHOD OF USER EQUIPMENT, USER EQUIPMENT THEREOF, CHANNEL STATUS INFORMATION RECEIVING METHOD OF TRANSMISSION POINT, AND TRANSMISSION POINT THEREOF	KOREA (REPUBLIC OF)	US201214123188 WO2012KR05673	US9241283 B2 WO2013012235 A3	UNITED STATES Patent Cooperation Treaty
28	3GPP-Release-11, COMP_LTE	TS 136 211 TS 36.211		11.0.0 11.0.0	KT CORPORATION, ???? ???	KR20120103523	KR101619105 B1	METHOD FOR TRANSMITTING UPLINK DEMODULATION REFERENCE SIGNAL, TERMINAL THEREOF, METHOD FOR PROCESSING UPLINK DEMODULATION REFERENCE SIGNAL AND TRANSMISSION/RECEPTION POINT THEREOF	KOREA (REPUBLIC OF)	WO2013KR03793	WO2013176414 A1	Patent Cooperation Treaty
29	3GPP-Release-11, COMP_LTE	TS 136 211 TS 36.211		11.0.0 11.0.0	KT CORPORATION, ???? ???	KR20120141245	KR101647868 B1	METHOD FOR TRANSMITTING UPLINK PHYSICAL CHANNEL AND SOUNDING REFERENCE SIGNAL IN UPLINK RELATED UPLINK PHYSICAL CHANNEL AND TERMINAL THEREOF	KOREA (REPUBLIC OF)	US201314406779 WO2013KR04013	US9756616 B2 WO2013187603 A1	UNITED STATES Patent Cooperation Treaty
30	3GPP-Release-11, COMP_LTE	TS 136 211 TS 136 212 TS 136 213 TS 36.211 TS 36.212 TS 36.213		11.0.0 11.0.0 11.0.0 11.0.0 11.0.0 11.0.0	KT CORPORATION, ???? ???	KR20120145631	KR101669701 B1	METHOD FOR PROVIDING INFORMATION MAPPING OF PHYSICAL UPLINK SHARED CHANNEL, TRANSMISSION/RECEPTION POINT THEREOF, METHOD FOR TRANSMITTING PHYSICAL UPLINK SHARED CHANNEL AND TERMINAL THEREOF	KOREA (REPUBLIC OF)	US201314407984 WO2013KR04233	US9490942 B2 WO2014003313 A1	UNITED STATES Patent Cooperation Treaty
31	3GPP-Release-11, COMP_LTE	TS 136 211 TS 136 212 TS 136 213 TS 36.211 TS 36.212 TS 36.213		11.0.0 11.0.0 11.0.0 11.0.0 11.0.0 11.0.0	KT CORPORATION, ???? ???	KR20130056971	KR101669710 B1	METHODS OF CONTROLLING TRANSMISSION OF UPLINK AND APPARATUSES THEREOF IN MOBILE COMMUNICATION NETWORKS	KOREA (REPUBLIC OF)	US201314410194 WO2013KR05885	US9615289 B2 WO2014007531 A1	UNITED STATES Patent Cooperation Treaty



32	3GPP-Release-11, COMP_LTE	TS 136 211		11.0.0	KT CORPORATION, ????	KR20130068121	KR101589911 B1	METHODS AND APPARATUSES FOR POWER CONTROL OF RANDOM ACCESS	KOREA (REPUBLIC OF)	US201314419270	US9544111 B2	UNITED STATES Patent Cooperation Treaty
		TS 136 212		11.0.0						WO2013KR06740	WO2014021589 A1	
		TS 136 213		11.0.0								
		TS 36.211		11.0.0								
		TS 36.212		11.0.0								
		TS 36.213		11.0.0								
33	3GPP-Release-11, COMP_LTE	TS 136 211		11.0.0	KT CORPORATION, ????	KR20130089752	KR101619400 B1	METHODS AND APPARATUSES FOR CONTROLLING TRANSMISSION OF UPLINK CHANNEL AND SIGNALS	KOREA (REPUBLIC OF)	US201314421562	US2015223231 A1	UNITED STATES Patent Cooperation Treaty
		TS 136 212		11.0.0						WO2013KR07218	WO2014027804 A1	
		TS 136 213		11.0.0								
		TS 36.211		11.0.0								
		TS 36.212		11.0.0								
		TS 36.213		11.0.0								
34	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211			KT CORP [KR]	KR20160087298	KR20170093675 A	METHODS FOR TRANSMITTING AND RECEIVING SIGNALS IN mmWAVE COMMUNICATION SYSTEMS WITH MASSIVE ANTENNA ARRAYS AND APPARATUSES THEREOF	KOREA (REPUBLIC OF)	US201716075591	US2019044584 A1	UNITED STATES Patent Cooperation Treaty
		TS 38.212 TS 38.213								WO2017KR00507	WO2017135593 A1	
35	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211			KT CORP [KR]	KR20160087313	KR20170091489 A	HARQ METHODS FOR CONTROLLING DOWNLINK HARQ IN WIRELESS COMMUNICATION SYSTEMS AND APPARATUS THEREOF	KOREA (REPUBLIC OF)	US201716073769	US2019036654 A1	UNITED STATES Patent Cooperation Treaty
		TS 38.212 TS 38.213								WO2017KR00508	WO2017131374 A1	
36	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20170014774	KR20170093720 A	METHODS OF DOWNLINK SYNCHRONIZATION SIGNAL TRANSMISSION FOR NEW FRAME STRUCTURE AND APPARATUSES THEREOF	KOREA (REPUBLIC OF)			
37	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211			KT CORP [KR]	KR20160087324	KR20170101752 A	METHODS FOR TRANSMITTING AND RECEIVING REFERENCE SIGNALS AND FEEDBACKS IN mmWAVE COMMUNICATION SYSTEMS AND APPARATUSES THEREOF	KOREA (REPUBLIC OF)	US201716075591	US2019044584 A1	UNITED STATES Patent Cooperation Treaty
		TS 38.212 TS 38.213								WO2017KR00507	WO2017135593 A1	
38	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20160087320	KR20170101751 A	METHODS FOR TRACKING AND CONTROLLING BEAMS IN WIRELESS COMMUNICATION SYSTEMS USING mmWAVE FREQUENCY BANDS AND APPARATUSES THEREOF	KOREA (REPUBLIC OF)			
39	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20170142190	KR20180048371 A	Method for transmitting and receiving data channel for new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2017KR12118	WO2018080274 A1	Patent Cooperation Treaty
40	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20180060204	KR20180131427 A	DMRS Method for allocating and multiplexing DMRS port in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2018KR06159	WO2018221960 A1	Patent Cooperation Treaty



41	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20180079412	KR20190008113 A	Method for transmitting transmission block for new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2018KR07837	WO2019013540 A1	Patent Cooperation Treaty
42	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20180088382	KR20190013636 A	DMRS Method for configuring additional DMRS in new radio and Apparatuses thereof	KOREA (REPUBLIC OF)			
43	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20180170113	KR20190080783 A	Method for transmitting and receiving control information for new radio and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2018KR16811	WO2019132559 A1	Patent Cooperation Treaty
44	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.211 TS 38.212 TS 38.213			KT CORP [KR]	KR20170106004	KR20180113138 A	METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA BASED ON MULTIPLE BEAM	KOREA (REPUBLIC OF)			
45	3GPP-Release-15	TS 38.211 TS 38.212 TS 38.213	15.1.0 15.1.0 15.1.0		KT CORP [KR]	KR20160032626	KR20170109153 A	Short TTI PUCCH Apparatus and method of PUCCH configuration based on short TTI frame structure	KOREA (REPUBLIC OF)			
46	3GPP-Release-15	TS 38.211 TS 38.212 TS 38.213	15.1.0 15.1.0 15.1.0		KT CORP [KR]	KR20170079516	KR20180004392 A	METHODS FOR CONFIGURING PUCCH IN A SHORT TTI FRAME STRUCTURE AND APPARATUSES THEREOF	KOREA (REPUBLIC OF)	WO2017KR06843	WO2018004256 A1	Patent Cooperation Treaty
47	3GPP-Release-15	TS 38.211 TS 38.212 TS 38.213	15.1.0 15.1.0 15.1.0		KT CORP [KR]	KR20170147747	KR20180053236 A	Methods for transmitting channel quality indication information in a short TTI frame structure and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2017KR12745	WO2018088848 A1	Patent Cooperation Treaty
48	3GPP-Release-12	TS 36.331			KT CORP [KR]	KR20150034719	KR20150114890 A	METHODS FOR CONTROLLING THE SECONDARY CELL OPERATION OF A MOBILE STATION AND APPARATUSES THEREOF	KOREA (REPUBLIC OF)	WO2015KR02852	WO2015152554 A1	Patent Cooperation Treaty
49	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.300 TS 38.331 TS 38.300 TS 38.331	15.2.0 15.3.0 15.2.0 15.3.0		???? ?	KR20170116319	KR102022846 B1	Methods for controlling the UE connection status and Apparatuses thereof	KOREA (REPUBLIC OF)	US201715716595	US10440691 B2	UNITED STATES
50	3GPP-Release-16	TS 38.331			KT CORP [KR]	KR20180079460	KR20190008114 A	Methods for controlling a carrier aggregation for next generation wireless network and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2018KR07844	WO2019013543 A1	Patent Cooperation Treaty
51	3GPP-Release-16	TS 38.331			KT CORP [KR]	KR20180111250	KR20190034094 A	Methods for processing data of relay node and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2018KR11055	WO2019059638 A1	Patent Cooperation Treaty
52	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.331			KT CORP [KR]	KR20170118911	KR20180033443 A	Methods for changing a connection of a UE and Apparatuses thereof	KOREA (REPUBLIC OF)	WO2017KR10406	WO2018056718 A1	Patent Cooperation Treaty
53	3GPP NR Release 15, 3GPP Release-15 NR	TS 38.300	15.0.0		KT CORP [KR]	KR20170127416	KR20180039567 A	Methods for providing network service using network slicing and Apparatuses thereof	KOREA (REPUBLIC OF)			

* Information on other members of a PATENT FAMILY is provided voluntarily (Clause 4.3 of the ETSI IPR Policy).



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